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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/675,165	09/29/2000	Naoji Otsuka	35.C14829	2801	
5514 7	590 06/03/2002			MC	
FITZPATRICK CELLA HARPER & SCINTO			EXAMINER		
• • • • • • • • • • • • • • • • • • • •	30 ROCKEFELLER PLAZA NEW YORK, NY 10112			NGUYEN, THINH H	
			ART UNIT	PAPER NUMBER	
	•		2861		
			DATE MAILED: 06/03/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/675,165	OTSUKA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Thinh H Nguyen	2861			
The MAILING DATE of this communication appeariod for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	rely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on					
2a)⊠ This action is <b>FINAL</b> . 2b)☐ Thi	s action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims					
4)⊠ Claim(s) 1-24 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-24</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examiner					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12)☐ The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents	s have been received.				
2. Certified copies of the priority documents	have been received in Application	on No			
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
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<ul> <li>14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).</li> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> </ul>					
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6) Other:					
S. Patent and Trademark Office					

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

1. Claims 1-24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The followings limitation lacks antecedent basis:

"the recording head" (cls. 1, 17, 20, and 22; line 8).

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-5, 9-17, 20, 22, and 24 rejected under 35 U.S.C. 102(b) as being anticipated by Lin et al. (U.S.4,748,453)

Lin et al. (see fig.1, claims 1, 7, and 8) discloses every element of the instant claimed print apparatus includes printing wherein ink nozzles of respective colors are arranged and delivered in a symmetrical ejection order in the forward and reverse directions so that to eliminate a hue difference.

# Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 6-8, 18-19, 21, 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lin et al. in view of prior art of record to Matsufuji et al. (U.S. 4,593,295)

Lin et al. discloses the instant claimed nozzle structure except for nozzle groups of certain color are symmetrically arranged in a scanning direction.

Matsufuji et al. teaches nozzle groups of certain color are symmetrically arranged in a scanning direction and printing are applied in the symmetrical order. Since both Lin et al. and Matsufuji et al. related to controlling nozzles ejection order in the bi-directional printer, it would have been obvious to one of ordinary skill in the art at the time the invention was made to adapt the Matsufuji et al. nozzle structure in Lin et al. for the purpose of ejecting ink color in the symmetrical order.

As for limitation recited in claims 18 and 19, Lin et al. does not teaches applying the apparatus in a copy machine and a facsimile machine.

However, it would be obvious to use the apparatus such as the ink jet printhead as taught by Iwazawa in the copy machine and the facsimile machine since it is widely known to apply ink jet structure as a whole in the copy machine and the facsimile machine so that ink jet application can be provided.

#### Response to Amendment

Applicant's Amendment filed March 11, 2002 has been entered and carefully considered.

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Applicants' arguments with respect to new issues presenting in the amended claims have been considered as noted in the above new grounds of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

#### **Contact Information**

Any inquiry concerning this communication should be directed to Examiner Thinh Nguyen at telephone number (703) 308-7487.

Any inquiry of a general nature or relating to the status of this application should be directed to the group receptionist whose telephone number is (703) 308-0956.

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Thinh Nguyen

May 31, 2002

Thinh Nguyen
Primary Examiner
Technology Center 2800